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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/662,004	09/14/2000	Kazuichiro Itonaga	0819-418	9057
22204	7590 12/03/20	2		
NIXON PEABODY, LLP			EXAMINER	
SUITE 800	NSBORO DRIVE		BREWSTER, WILLIAM M	
MCLEAN, V	/A 22102		ART UNIT	PAPER NUMBER
			2823	
			DATE MAILED: 12/03/2002	2

Please find below and/or attached an Office communication concerning this application or proceeding.

		Q.	by			
	Application No.	Applicant(s)	7			
	09/662,004	ITONAGA ET AL.				
· Office Action Summary	Examiner	Art Unit				
	William M. Brewster	2823				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIOI - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta - Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b). Status	N. t 1.136(a). In no event, however, may a reply within the statutory minimum of thir iod will apply and will expire SIX (6) MON atute, cause the application to become Al	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 0	07 October 2002 .					
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-30 is/are pending in the applicat	tion.					
4a) Of the above claim(s) is/are without	drawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-30</u> are subject to restriction and/	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exam	iner.					
10) The drawing(s) filed on is/are: a) □ ac						
Applicant may not request that any objection to						
11)☐ The proposed drawing correction filed on		isapproved by the Examiner.				
If approved, corrected drawings are required in						
12) The oath or declaration is objected to by the	Examiner.					
Priority under 35 U.S.C. §§ 119 and 120		0.440(.)(.)				
13) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority docume						
2. Certified copies of the priority docume						
 3. Copies of the certified copies of the papplication from the International * See the attached detailed Office action for a 	Bureau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for dome).			
a) ☐ The translation of the foreign language 15)☐ Acknowledgment is made of a claim for dom	provisional application has b	een received.				
Attachment(s)	,					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

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DETAILED ACTION

Generally

The restriction requirement of Paper No. 4, sent 27 July 2002 is hereby withdrawn.

Upon further inspection, examiner has found more variation than originally assumed. As examiner does not wish to perform a lesser quality examination than the applicant is entitled to, the following restrictions shall apply:

Election/Restrictions

Claim 1, forming an insulating film by a plasma process, is generic to a plurality of disclosed patentably distinct species comprising: Species I: claims 1-12, controlling a thickness and temperature of an insulating film, Species II: claims 13-14, forming photoresist on a substrate, removing said photoresist and recovering a thickness of said insulating film; Species III: claims 15-17, forming a semiconductor film on a semiconductor substrate and forming an insulating film on said semiconductor film; Species IV: claims 18-20, forming a gate electrode on insulator film, patterning a gate electrode on said insulator film, oxidizing etching residues of said semiconductor film remaining on said exposed insulating film; Species V: claims 21-24, successfully depositing a first insulating film and a conducting film at least including a metal on a semiconductor substrate, pattering the layers to form a gate electrode, and forming a second insulating film on at least an exposed portion or said semiconductor substrate;

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Species VI: claims 25-27, forming gate electrodes from a semiconductor film including impurities with a gate insulating film sandwiched there between form, forming a coat insulating film on said semiconductor substrate and exposed portions of said first and second gate electrodes; Species VII: claims 28-30, successfully depositing a pad oxide film and a masking nitride film on a semiconductor substrate, forming an opening in the mask, forming a trench in said substrate, forming a rounding insulating film, forming a trench isolation region by filling said trench with an insulating film. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William M. Brewster whose telephone number is 703-305-5906. The examiner can normally be reached on Full Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 703-306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3432 for regular communications and 703-305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

WB

November 21, 2002

Olik Chardhuri

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Supervisory Patent Examiner Technology Center 2800